(19) World Intellectual Property Organization International Bureau

(43) International Publication Date 11 November 2004 (11.11.2004)

PCT

(10) International Publication Number WO 2004/097164 A1

(51) International Patent Classification7:

(21) International Application Number:

PCT/NO2004/000124

(22) International Filing Date: 29 April 2004 (29.04.2004)

(25) Filing Language:

Norwegian

E21B 19/10

(26) Publication Language:

English

(30) Priority Data:

20031994 60/467,128 2 May 2003 (02.05.2003) NO 2 May 2003 (02.05.2003)

(71) Applicant (for all designated States except US): HD OIL TECHNOLOGY AS [NO/NO]; P.O. Box 1020, Hillevåg, N-4095 Stavanger (NO).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): DYKESTEEN, Helge [NO/NO]; Markveien 39, N-4020 Stavanger (NO).
- (74) Agent: ONSAGERS AS; P.O. Box 6963 St. Olavs plass, N-0130 Oslo (NO).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

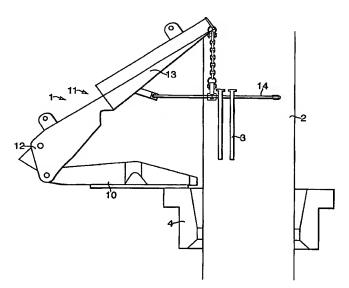
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: SYSTEM, LIFTING DEVICE AND METHOD FOR SUPPORTING A PIPE STRING



(57) Abstract: The invention relates to a system for supporting a pipe string (2) to which an additional pipe element has to be connected, comprising a lifting device (1), a wedge device (3) and an abutment element (4). The invention also relates to a lifting device (1) comprising an attachment foundation (10), a lifting arm (11), which is in linked connection with the attachment foundation (10) and a replaceable tension element (14) in the form of a circular arc connected to the lifting arm, where the wedge device (3) is releasable secured to the tension element (14), thus enabling the wedge device (3) to be moved by means of the lifting device (1) from an inoperative position in a position above the abutment element (4) to an operative position where the wedge device (3) abuts against the abutment element (4), thus securing the pipe string (2) by means of the wedge effect. The invention also relates to a method.

WO 2004/097164 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.